

and a pharmaceutically acceptable salt or an oxide or a hydrate thereof, wherein,

A and B, independently of each another represent a group of the formula  $-(CH_2)_n-$ , of the formula  $-(CH_2)_n-Y-$  (in either direction), or of the formula  $-(CH_2)_n-Y-(CH_2)_m$ ;

in which formulas

n and m, independently of each other, represent 0, 1, 2, 3 or 4, and Y represents O, S, or  $NR'''$ , wherein  $R'''$  represents hydrogen or alkyl;

$R_1$  and  $R_2$ , independently of each other, represent

alkyl, alkenyl, alkynyl, cycloalkyl, amino, trihalogenmethyl, nitro, cyano, or phenyl, or a group of the formula  $-OR'$ ,  $-SR'$ ,  $-R'OR''$ ,  $-R'SR''$ ,  $-C(O)R'$ ,  $-C(S)R'$ ,  $-C(O)OR'$ ,  $-C(S)OR'$ ,  $-C(O)SR'$ ,  $-C(S)SR'$ ,  $-C(O)NR'(OR'')$ ,  $-C(S)NR'(OR'')$ ,  $-C(O)NR'(SR'')$ ,  $-C(S)NR'(SR'')$ ,  $-CH(CN)_2$ ,  $-C(O)NR'R''$ ,  $-C(S)NR'R''$ ,  $-CH[C(O)R']_2$ ,  $-CH[C(S)R']_2$ ,  $-CH[C(O)OR']_2$ ,  $-CH[C(S)OR']_2$ ,  $-CH[C(O)SR']_2$ ,  $-CH[C(S)SR']_2$ ,  $CH_2OR'$ ,  $CH_2SR'$ ,  $-NR'C(O)R''$ , or  $-OC(O)R'$ ;

an unsaturated or a partially or completely saturated mono- or polycyclic aromatic hydrocarbon group, a mono- or poly-heterocyclic group containing one or more 5- and/or 6-membered cyclic groups having one or more heteroatoms selected from the group consisting

of N, O and S; an aryl group attached to an alkyl group; or a hetero-alkyl group having an alkyl group attached to a mono or poly heterocyclic group containing one or more 5- and/or 6-membered cyclic groups having one or more heteroatoms selected from the group consisting of N, O and S, wherein said mono- or polycyclic groups or aralkyl or hetero-alkyl groups are unsubstituted or are substituted one or more times with substituents selected from the group consisting of halogen, trihalogenmethyl, alkyl, alkenyl, alkynyl, amino, nitro, cyano, or amido, or a group of the formula -R', -OR', -SR', -R'OR'', -R'SR'', -C(O)R', -C(S)R', -C(S)OR', -C(S)OR', -C(O)SR', or -C(S)SR', or a phenyl or a phenoxy group, wherein said phenyl or phenoxy groups are unsubstituted or substituted one or more times with substituents selected from the group consisting of halogen, trihalogenmethyl, alkyl, alkenyl, alkynyl, amino, nitro, cyano, or amido, or a group of the formula -R', -OR', -SR', -R'OR'', -R'SR'', -C(O)R', -C(S)R', -C(O)OR', -C(S)OR', -C(O)SR', -C(S)SR', -NR'C(O)R'', or -OC(O)R';

wherein

R' and R'', independently of each another, represent hydrogen, alkyl, alkenyl, alkynyl, cycloalkyl, alkoxy or phenyl, or a group

of the formula  $NR''R'''$ , wherein  $R''$  and  $R'''$ , independently of each another, represent hydrogen or alkyl;

$R_3$  and  $R_4$ , independently of each another, represent

alkyl, alkenyl, alkynyl, cycloalkyl, amino, trihalogenmethyl, nitro, cyano, or phenyl, or a group of the formula  $-OR'$ ,  $-SR'$ ,  $-R'OR''$ ,  $-R'SR''$ ,  $-C(O)R'$ ,  $-C(S)R'$ ,  $-C(O)OR'$ ,  $-C(S)OR'$ ,  $-C(O)SR'$ ,  $-C(S)SR'$ ,  $-C(O)NR'(OR'')$ ,  $-C(S)NR'(OR'')$ ,  $-C(O)NR'(SR'')$ ,  $-C(S)NR'(SR'')$ ,  $-CH(CN)_2$ ,  $-C(O)NR'R''$ ,  $-C(S)NR'R''$ ,  $-CH[C(O)R']_2$ ,  $-CH[C(S)R']_2$ ,  $-CH[C(O)OR']_2$ ,  $-CH[C(S)OR']_2$ ,  $-CH[C(O)SR']_2$ ,  $-CH[C(S)SR']_2$ ,  $CH_2OR'$ ,  $CH_2SR'$ ,  $-NR'C(O)R''$ , or  $-OC(O)R'$ ;

wherein

$R'$  and  $R''$ , independently of each another, represent hydrogen, alkyl, alkenyl, alkynyl, cycloalkyl, alkoxy or phenyl, or a group of the formula  $NR''R'''$ , wherein  $R''$  and  $R'''$ , independently of each another, represent hydrogen or alkyl;

or  $R_3$  and  $R_4$  together form an unsaturated or a partially or completely saturated mono- or polycyclic aromatic hydrocarbon group, or a mono- or poly-heterocyclic group, containing one or more 5- and/or 6-membered cyclic groups having one or more heteroatoms selected from the group consisting of N, O and S; wherein said mono- or polycyclic groups are unsubstituted or

substituted one or more times with substituents selected from the group consisting of halogen, trihalogenmethyl, alkyl, alkenyl, alkynyl, amino, nitro, cyano, or amido, or a group of the formula -R', -OR', -SR', -R'OR'', -R'SR'', -C(O)R', -C(S)R', -C(O)OR', -C(S)OR', -C(O)SR', or -C(S)SR', or a phenyl or a phenoxy group, wherein said phenyl or phenoxy groups are unsubstituted or substituted one or more times with substituents selected from the group consisting of halogen, trihalogenmethyl, alkyl, alkenyl, alkynyl, amino, nitro, cyano, or amido, or a group of the formula -R', -OR', -SR', -R'OR'', -R'SR'', -C(O)R', -C(S)R', -C(O)OR', -C(S)OR', -C(O)SR', -C(S)SR', -NR'C(O)R'', and -OC(O)R';

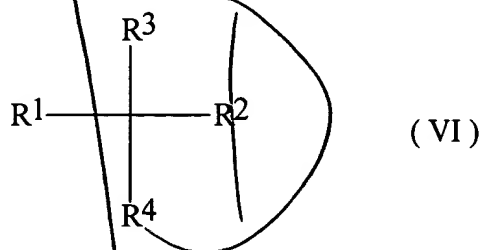
wherein

R' and R'', independently of each another, represent hydrogen, alkyl, alkenyl, alkynyl, cycloalkyl, alkoxy or phenyl, or a group of the formula NR'''R''', wherein R''' and R''', independently of each another, represent hydrogen or alkyl.

6. (Amended) The chemical compound according to any of claims 1-5, wherein R1 and R2 independently of each another represents a hydroxy group; an alkyl group; an alkoxy group; a group of the formula -OC(O)R' wherein R' is hydrogen or alkyl; a

group of the formula  $\text{-NHC(O)R''}$ , wherein  $\text{R''}$  is hydrogen or alkyl;  
a phenyl or a benzyl group, wherein said phenyl and benzyl  
groups are unsubstituted or substituted one or more times with  
substituent selected from the group consisting of alkyl, alkoxy,  
halogen,  $\text{CF}_3$ ,  $\text{CN}$ , amino, nitro, or a group of the formula  $\text{-NHC(O)R''}$ , wherein  $\text{R''}$  is hydrogen, alkyl or phenyl; a 5- or 6-  
membered mono- or poly-heterocyclic group, wherein said  
heterocyclic group is unsubstituted or substituted one or more  
times with substituent selected from the group consisting of  
halogen,  $\text{CF}_3$ ,  $\text{CN}$ , amino or nitro; a heteroalkyl group, wherein  
the heterocyclic a mono-heterocyclic group, wherein said  
heterocyclic group is unsubstituted or substituted one or more  
times with substituent selected from the group consisting of  
halogen,  $\text{CF}_3$ ,  $\text{CN}$ , amino or nitro.

16. (Amended) The chemical compound according to claim 1,  
represented by the general formula VI



and a pharmaceutically acceptable salt or an oxide or a hydrate thereof,

wherein,

R1 and R2, independently of each other, represent an unsaturated or a partially or completely saturated mono- or polycyclic aromatic hydrocarbon group, a mono- or poly-heterocyclic group, containing one or more 5- and/or 6-membered cyclic groups having one or more heteroatoms selected from the group consisting of N, O and S, an aryl group attached to an alkyl group, or a hetero-alkyl group having an alkyl group attached to a mono- or poly-heterocyclic group containing one or more 5- and/or 6-membered cyclic groups having one or more heteroatoms selected from the group consisting of N, O and S, wherein said mono- or polycyclic groups or aralkyl or hetero-alkyl groups are unsubstituted or substituted one or more times with substituents selected from the group consisting of halogen, trihalogenmethyl, alkyl, alkenyl, alkynyl, amino, nitro, cyano, or amido, or a group of the formula -R', -OR', -SR', -C(O)R', -C(S)R', -C(O)OR', -C(S)OR', -C(O)SR', or OC(S)SR', or a phenyl or a phenoxy group, wherein said phenyl or phenoxy groups are unsubstituted or substituted one or more times with substituents selected from the

group consisting of halogen, trihalogenmethyl, alkyl, alkenyl, alkynyl, amino, nitro, cyano, or amido, or a group of the formula  $-R'$ ,  $-OR'$ ,  $-SR'$ ,  $-C(O)R'$ ,  $-C(S)R'$ ,  $-C(O)OR'$ ,  $-C(S)OR'$ ,  $-C(O)SR'$ ,  $-C(S)SR'$ ,  $-NR'C(O)R'$ , or  $-OC(O)R'$ ;

wherein

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*Amid*  
 $R'$  represents hydrogen, alkyl, alkenyl, alkynyl, cycloalkyl, alkoxy or phenyl, or a group of the formula  $NR''R'''$ , wherein  $R''$  and  $R'''$ , independently of each another, represent hydrogen or alkyl; and

$R_3$  and  $R_4$ , independently of each another, represent alkyl, alkenyl, alkynyl, cycloalkyl, amino, trihalogenmethyl, nitro, cyano, or phenyl, or a group of the formula  $-OR'$ ,  $-SR'$ ,  $-R'OR''$ ,  $-R'SR''$ ,  $-C(O)R'$ ,  $-C(S)R'$ ,  $-C(O)OR'$ ,  $-C(S)OR'$ ,  $-C(O)SR'$ ,  $-C(S)SR'$ ,  $-C(O)NR'(OR'')$ ,  $-C(S)NR'(OR'')$ ,  $-C(O)NR'(SR'')$ ,  $-C(S)NR'(SR'')$ ,  $-CH(CN)_2$ ,  $-C(O)NR'R''$ ,  $-C(S)NR'R''$ ,  $-CH[C(O)R']_2$ ,  $-CH[C(S)R']_2$ ,  $-CH[C(O)OR']_2$ ,  $-CH[C(S)OR']_2$ ,  $-CH[C(O)SR']_2$ ,  $-CH[C(S)SR']_2$ ,  $CH_2OR'$ ,  $CH_2SR'$ ,  $-NR'C(O)R''$ , or  $-OC(O)R'$ ;

wherein

$R'$  and  $R''$ , independently of each another, represent hydrogen, alkyl, alkenyl, alkynyl, cycloalkyl, alkoxy or phenyl, or a

group of the formula  $NR''R'''$ , wherein  $R''$  and  $R'''$ , independently of each another, represent hydrogen or alkyl;  
or  $R_3$  and  $R_4$  together form an unsaturated or a partially or completely saturated mono-or polycyclic aromatic hydrocarbon group, or a mono-or poly-heterocyclic group containing one or more 5- and/or 6-membered cyclic groups having one or more heteroatoms selected from the group consisting of N, O and S, mono- or polycyclic groups are unsubstituted or substituted one or more times with substituents selected from the group consisting of halogen, trihalogenmethyl, alkyl, alkenyl, alkynyl, amino, nitro, cyano, or amido, or a group of the formula  $-R'$ ,  $-OR'$ ,  $-SR'$ ,  $-R'OR''$ ,  $-R'SR''$ ,  $-C(O)R'$ ,  $-C(S)R'$ ,  $-C(O)OR'$ ,  $-C(S)OR'$ ,  $-C(O)SR'$ , or  $-C(S)SR'$ , or a phenyl or a phenoxy group, wherein said phenyl or phenoxy groups are unsubstituted or substituted one or more times with substituents selected from the group consisting of halogen, trihalogenmethyl, alkyl, alkenyl, alkynyl, amino, nitro, cyano, or amido, or a group of the formula  $-R'$ ,  $-OR'$ ,  $-SR'$ ,  $-R'OR''$ ,  $-R'SR''$ ,  $-C(O)R'$ ,  $-C(S)R'$ ,  $-C(O)OR'$ ,  $-C(S)OR'$ ,  $-C(O)SR'$ , and  $-C(S)SR'$ ;  
wherein



*C2*  
*only*

R' and R'', independently of each another, represent hydrogen, alkyl, alkenyl, alkynyl, cycloalkyl or alkoxy, or a group of the formula  $\text{NR}'''\text{R}''''$ , wherein R''' and R'''', independently of each another, represent hydrogen or alkyl.

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